

Title (en)
MEASURING RESISTOR AND CORRESPONDING MEASURING METHOD

Title (de)
MESSWIDERSTAND UND ENTSPRECHENDES MESSVERFAHREN

Title (fr)
RÉSISTANCE DE MESURE ET PROCÉDÉ DE MESURE CORRESPONDANT

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Abstract (en)
[origin: WO2014161624A1] The invention relates to a measuring resistor (1), in particular a low-resistance current-measuring resistor, comprising two terminal parts (2, 3) that consist of a conductor material for introducing and discharging a current, and a resistor element (4) that consists of a resistor material, wherein the resistor element (4) is arranged between the two terminal parts (2, 3) in the direction of the current and current flows through the resistor element (4). According to one variant of the invention, the measuring resistor (1) has several pairs of voltage-measuring contacts (7) for measuring the voltage falling across the resistor element (4) in order to be able to compensate metrologically for inhomogeneities in the current density. In contrast, according to another variant of the invention, one pair of voltage-measuring contacts (7) is arranged at a location at which the measuring resistor (1) exhibits neither a capacitive behaviour nor an inductive behaviour, such that the current flowing through the measuring resistor (1) and the voltage across the voltage-measuring contacts (7) are substantially in phase.

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